## WAR GAMES RULES

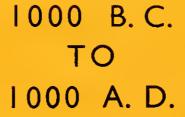






















4th Edition AUGUST 1973 WAR GAMES RESEARCH GROUP

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Sussex.

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#### INTRODUCTION TO THE 4TH EDITION

Since the first edition of these rules was printed, they have been chosen for the Ancient games in the 1969, 1970, 1971, 1972 and 1973 National Wargames Championships, have been officially adopted by the Society of Ancients, the specialist society for ancient and medieval wargamers, and are now used by an overwhelming majority of ancient wargamers throughout the world.

Many of the new techniques originally introduced in these rules have now been incorporated in rules of our own covering other periods of history, and also copied by other rule writers.

This 4th edition incorporates only relatively minor changes, most of which have already been made available to 3rd edition owners in free amendment sheets. Some of these block loopholes shown up by the last two years play, but most consist of extra explanation for the benefit of the many new converts to ancient wargaming.

As for the beginner, do not be overawed by the size of this rule book, and the apparent complexity of the rules. Read them through at first as if they were a book, and don't forget that the basics are incorporated in the quick reference sheets. Above all, keep to a few basic types of troops for your first few games, and get to know how to use them in the best combination. Once you have the feel of the rules, you will be able to bring in more varied types, and also try out small sieges, fighting from ships, and other features.

We recommend our new series of illustrated booklets on ancient armies for background information. For information on these, and rules for other periods also produced by the Group, write to:— B. O'Brien, 75, Ardingly Drive, Goring by Sea, Sussex.

Wargames Research Group.

## **SCALES**

## GROUND SCALE

This can be expressed as one inch equals ten paces, a pace being taken as two and a half feet or three quarters of a metre, or as one millimeter equals one foot.

All distances in the text are quoted in paces.

To measure such distances on your wargames table, simply disregard the terminal 0 and measure in inches.

## FIGURE SCALE

Each figure represents 20 men, the number who would theoretically occupy the area covered by its base at the ground scale.

The formation is assumed to be 5 files wide by 4 ranks deep.

An elephant, chariot, war engine or wagon model represents 8 in a single rank or line.

## TIME SCALE

Each period of play contains action comparable with half a minute in real life.

As this, multiplied by the likely number of periods in a game, gives an unrealistically short time for a battle, we assume that each period also contains a variable amount of delay.

For campaign purposes, we recommend that you treat one period of play on the table as equivalent to one hour in real life.

It then follows that a game should normally be assumed to be ended by the fall of night after 12 periods of play.

## SETTING UP THE BASIC GAME

## TYPES OF FIGURE

Elephants, chariots, wagons, and engines and their crews, are treated in most respects as a single figure.

Troops will be assumed to be armed with the weapons depicted on the figure representing them, with two exceptions.

- Officer, standard bearer and musician figures will be assumed to represent the majority type
  of rank and file in their unit, as they in theory include I special figure and I9 others.
  The General figure in a similar way includes the great man himself, and I9 staff officers,
  aides or bodyguards.
- 2. Figures apparently armed only with a sword are assumed to have throwing weapons as well. These will be the normal weapons for their type, i.e. Legionaries will have pila, Britons light javelins.

Troops are classified in two ways, the first of which affects their reaction to circumstances. This divides them into five classes.

- A. Guard and household troops of the highest calibre.
- B. Elite regulars, personal followings of barbarian war leaders.
- C. The great bulk of trained troops other than those above, including most auxiliaries and mercenaries, but not "native" levies.
- D. Levies, barbarians, etc., of known fighting value, but not highly organised or disciplined.
- E. Unenthusiastic or disaffected troops, including forced levies from subject races, and conscripted peasants of doubtful fighting value.

They are also classified by their standard of protection and normal mode of fighting, whether in close or loose order.

- LC. Light cavalry Light troops fight in loose formation as skirmishers.
- LI. Light infantry They will often have a light shield, and may have a leather jerkin.
- LMI. Light-Medium Infantry. These fight in a closer formation than lights but a looser one than mediums. They are usually armed with javelins and carry a shield, combining light infantry mobility with medium infantry vulnerability and fighting characteristics. Celtic infantry, Hypaspists and the later Peltasts come into this category.
- MC. Medium Cavalry Medium troops fight shoulder to shoulder. They usually have a large shield and
- MI. Medium Infantry often have hardened leather armour
- HC. Heavy Cavalry These differ from mediums in having iron or bronze armour covering the
- HI. Heavy Infantry torso. Horses are usually unprotected. If some of them have horn or leather armour for their front half only, then some of the riders may have horn armour or hardened leather scale armour.

IIII light-Heavy Infantry. Similar to LMI but wear a light mail or scale armour corslet. Some Reman Aux. of C& C come into this category.

EHC. Extra Heavy Cavalry

These are men in mail, or iron or bronze scale armour, down to their elbows and thighs, mounted on horses with iron or bronze armour for their front half only, or with horn or leather armour all round. If some horses have metal armour all round, others may have horn armour to the front only, or may have riders armoured in horn. Their vulnerability under frontal missile attack or in an initial period of frontal hand-to-hand combat is equivalent to SHC, but in other circumstances to HC.

SHC. Super Heavy Cavalry

These are men in full iron armour completely covering body, limbs and all extremities, and mounted on horses with iron or bronze scale armour all round. They do not need shields.

Camel riders are treated as Cavalry of equivalent type in most respects except movement. The standard of protection of chariot and elephant crews and their animals is not relevant under these rules.

A further distinction is also drawn between regular or drilled troops in formed units under officers, and probably wearing uniforms, and improvised units or barbarians fighting under tribal leaders. Elephants and chariots, being somewhat erratic, are always classed with the barbarians. Berserkers and Moslem arabs are classed as barbarian fanatics.

You should not assume that barbarians are necessarily inferior; in many circumstances they will be found to be more effective than regulars.

## BASE SIZES

Figures must be fixed on bases of specific sizes. Frontages must be rigidly kept to, plus or minus 1 mm, depths are strong recommendations only.

	Frontage	Depth
Light Infantry	30mm.	30mm.
Light-Medium Infantry	20mm.	30mm.
Medium and Heavy Infantry	15mm.	20mm.
Light Cavalry	30mm.	40mm.
Medium, Heavy and Extra Heavy Cavalry	20mm.	40mm.
Super Heavy Cavalry	15 mm.	40mm.
Bolt-Throwing Engines, Chariots, Elephants and Wagons	40mm.	As required
Extra for each Chariot horse over 2.	10mm.	
Wheeled Penthouses	60mm.	As required
Stone-Throwing Engines and Wheeled Seige Towers.	80mm.	As required

In case you do not already use bases, they can be cut from beer mats, which do not warp, from thick card, or from sheet lead, which increases the stability of plastic figures.

All figures except possibly light cavalry should be mounted in convenient multiples, but leaving sufficient single figures to facilitate removing casualties. 60mm, is probably the ideal frontage for a multiple figure base.

Bases less than 15 mm but at least 12 mm count -1 in shooting & in hand-to-hand combat.

Bases less than 12 mm count -2.

#### UNIT ORGANISATION

The figures must be organised into units, which may be further divided into sub-units. Each unit must contain at least 5 figures, including an officer and a standard bearer figure. The maximum permitted size for a unit that is not divided into sub-units is 50 figures, representing 1.000 men.

A unit which includes at least one sub-unit must include a musician figure as well as a standard bearer and officer, and can have up to 60 figures, representing 1,200 men.

#### SUB-UNITS

A sub-unit must contain at least 5 figures including an officer figure. It must not have a standard bearer or musician.

The maximum number of figures permitted is 15, representing 300 men. However, except in an Indian unit, the largest sub-unit must be no larger than the element of the unit that contains the three command figures.

A sub-unit must not be given specific orders of its own, but must assist its parent unit to carry out its orders, moving in any suitable manner, and using any suitable method that does not conflict with the spirit of the orders given to the unit.

It must not move more than a normal move from its parent unit, measured from the two nearest figures, or out of sight of it. If this does happen by accident, it must be corrected as soon as possible. Roman, Byzantine, German, Spanish or Celtic light-medium, medium or heavy infantry units can have sub-units of light, or bow-armed heavy infantry.

Hellenistic light infantry units can have sub-units with differing weapon types.

An Indian unit can consist of elephant, chariot, cavalry and infantry sub-units, the command element being contained in the elephant sub-unit if present, otherwise the chariot sub-unit. In all other cases, sub-units must be identical in composition to their units.

## ELEPHANT, CHARIOT AND ENGINE ORGANISATION.

Elephants are organised into units of up to 8 models, representing 64 beasts, in a non-Indian army; up to 5 models, representing 40 beasts, in an Indian army.

Each elephant is treated una submitt, no points being charged for this. The unit need not have a normand elephant, but each individual must be within 60 paces of the next.

Chariot units are the same sizes as elephant units, except in a Celtic army, when they can be of up to 12 chariot models. Chariots do not count as a limited and the command chariot of a unit need not carry a standard bearer.

Engines are not organised into units or subject to limitations placed on units, but may be given orders as a group.

#### **GENERALS**

Each army must have a Commander-in-Chief, represented by a figure.

If the army is over 1,000 points strong, he may be assisted by a subordinate General, if over 1,500 points, by 2.

Such a subordinate may only order troops under his own command and in accordance with general orders that he has received, modified by his own personality, which is established by a dice throw at the start of the game and before writing orders.

A score of 1 or 2 indicates that he is over-cautious, 3 or 4 that he is average, 5 or 6 that he is rash. A cautious man has only a minus reaction effect, a rash, only plus.

A General may personally command his own bodyguard, which may be of up to 15 "A" or "B" type figures or a "B" type standard sized chariot or elephant unit, in each case counting his own figure, elephant or chariot. If his bodyguard including himself is 5 figures or less, or one chariot or elephant, he can supersede the command of any unit of his force.

## POINTS VALUES

As different troops cost more or less to equip and maintain than others, points values have been allocated to each classification.

These should be multiplied by the number of figures to give the points value of the army. Where regular troops have a higher value than barbarians, it is because their drill and training costs money. Where the reverse is the case, it is because metal armour is much harder to come by for abarbarian who has no government arsenal supported by tax payers to back him up.

	lf Regular	If Barbarian
Light, light-medium or medium infantryman	4	3
Heavy infantryman	6	<b>9</b> 5
Light or medium cavalryman	8	6
Heavy cavalryman	10	28
Extra heavy cavalryman	12	10
Extra for any of the above who are fanatics	Not allowed.	+1
Reduction for any infantry above who do not have shields.	$-\frac{1}{2}$	-1
Reduction for any cavalry above who do not have shields.	-2	-2
Super heavy cavalryman	15	13 12
Each fighting crewman for a chariot or elephant	Not allowed.	5
Extra for arming any of the above with two classes of weapon,		
where permitted	+2	+1
Chariot with 2 horses or asses and driver	Not allowed.	10
Elephant with driver	Not allowed.	15
Extra for each horse added to a chariot, or used to mount		
infantry, or cost of a pack horse or mule	+3	+2
Extra for substituting a camel for a horse.	+5	+1
Extra for A class fighting figures	+2	Not allowed.
Extra for B class	+1	+1
Reduction for E class	Not allowed.	-1
Command points to be added to the total value of the		
figures comprising a unit	+10	+25
Command points to be added to the total value of the		
figures comprising a sub-unit	+5	+10
Commander-in-Chief figure	100	100
Subordinate General figure	50	50
Light 3 span or 1 cubit bolt-throwing engine, including		
crew of 2 figures.	20	40
Heavy bolt-throwing engine or light 10 mina stone-throwing		<b>50</b>
engine, including crew of 3 and team of 6 oxen.	30	50
30 mina stone-throwing engine, including crew of 4, and 8 oxen.	40	60 80
1 talent stone-throwing engine, including crew of 5, and 12 oxen.	50 60	100
3 talent stone-throwing engine, including crew of 6, and 16 oxen.		
Wagon with animals and driver	10	10
Mantlet	3	5
Scaling ladder	5	5
Ram	10	10
Wheeled penthouse	50 100	100 200
Wheeled tower	100	200
Pontoon, with bridge section		
10 paces of caltrops	$\frac{2}{2}$	Not allowed. 3
10 paces of previously constructed palisade, ditch or bank	10	20
10 paces of stone curtain wall or 5 paces of tower	10	20

## TROOPS ENTITLED TO MORE THAN ONE CLASS OF WEAPON

Early Imperial legionaries

Late Roman and Byzantine infantry

Byzantine light cavalry

Byzantine heavy and extra heavy cavalry

Indian infantry Thracian peltast

Assyrian and Achmaenid Persian infantry

Hellenistic peltast Celtic charioteer Elephant riders

Huns

Eastern cavalry
Eastern charioteers

Pila and javelins

Long thrusting spear and javelins or darts

Kontos and darts

Kontos, bow and darts.

Two-handed sword and bow or javelins

Rhomphaia and javelins

Short thrusting spear and bow Long thrusting spear and javelins Long thrusting spear and javelins

Pike or bow and javelins

Bow and javelins

Kontos or thrusting spear and bow

Bow and javelins

If there are any other combinations you think should be allowed, send an S.A.E. and we will check them out.

All these weapons except those that are hand-hurled should be shown on the figure. Where combinations of hand-hurled weapons are specified, some figures at least should carry each, except where small darts are kept behind a large shield.

Because these combinations are permitted, it does not follow that all troops in the categories mentioned did not often carry these or other weapons singly.

Indian chariot and elephant drivers were sometimes armed. If so, they cost additional points as fighting crewmen, and can fight, but not shoot, against targets to their front only, counting the same for this purpose as archer crewmen.

## TROOPS FORCED MARCHING OR TRANSPORTED BY WATER

Troops forced marching to arrive on the battlefield early cost more. Mounted, light and light-medium troops cost 1 point per figure or model for each period early, medium infantry 2, heavy infantry 3, and wagons and engines 5.

Troops arriving by boat cost I point per figure extra if infantry, 3 if cavalry, 5 if camelry, engines or chariots, 10 if elephants.

## CHOICE OF ARMY

The players choice of figures is completely free, provided the points total does not exceed the figure agreed with his opponent, and that the army does not include any troop types or organisation not found in its prototype.

Stone fortifications may only be used by one side and by mutual agreement, as an invader would usually know of such places, and either avoid them or come prepared with siege equipment. We recommend 1,000 points for a 2 or 3 hour game, 1,250 or 1,500 for a full evening, 2,000 or more if several people are playing and if you don't mind continuing into the small hours.

## CHOICE OF TERRAIN

This may be agreed between the players or may be decided as follows:

Each player nominates a number, from 1 to 6 of terrain units per square metre of table.

Add both nominations, add the score of one dice, divide by 3 and round off.

Dice to see which player is going to select terrain units from those available.

Units can be: A house, with or without 500mm of hedge or low wall.

A hill.

10 trees.

An area of marsh or soft sand less than 300mm square.

750mm of fordable or 250mm of unfordable river.

A bridge or ford.

The other player then lays these out, then the first decides the direction of play.

Decide terrain for each square metre separately.

## SCOUTS

Each side declares how many light cavalry figures it has.

A side with 10% less must declare its entire army and any forced marching intentions to the opposing player, who may then increase his own rate of march if he wishes, reducing his slowest troops to maintain a constant points value.

## DEPLOYMENT

Each side makes a sketch map of its intended deployment, and then sets out according to this within 100 paces of the table edge. Troops may be kept off the table edge and instructed to arrive in a set number of periods.

They will then start to dice as if troops that have left the table, and so may arrive late or never. Troops who have a time advantage over their opponents may then use it for extra movement and/or to throw up field works. They must not approach within 200 paces of their opponents table edge. Troops up to half the value of a stone fortification may be present in garrison, regardless of how early the opponent arrives.

If woods extend to a players base line, he may deploy troops in them without putting them on the table. Their initial position and subsequent movements until they emerge or are found must be

clearly marked on his sketch map.

## ORDERS

A game commences with each player writing down the orders that each unit must follow until they are changed by fresh orders, or as a result of forced action following attack, or positive reaction from a test

Sub-units are not given orders, as they must support their parent unit in carrying out the orders it has been given.

Orders should take the same form that they would in real life, and should be as concise as possible while still conveying properly the action that is required.

Conditional orders, such as "If the enemy do this, do this" are usually unsatisfactory and should be used with caution.

Orders to "Use initiative" "Take appropriate action" or "Attack suitable targets" are no orders at all, and can only be obeyed by taking a "No current order" reaction test.

In competition games, or indeed, any where an umpire is employed, any ambiguity should be exploited by the umpire as a matter of duty, as the prime aim of these rules is to encourage skill in generalship by bringing out some of the difficulties of command and placing emphasis on the production of a reasonable battle plan, rather than each player moving his units as if he was actually on the spot in each case.

As examples, the order "Move South West" may result in the troops leaving the field completely, while "Take the wood in front" could be unfortunate if there are two woods.

Order writing should be completed within 5 minutes. If it takes longer, the first player to finish may add 60 paces to each of his first period moves.

## GENERAL FEATURES OF ORDERS

- Units may vary their formation as desired without specific orders, and will move at between half and full normal speed.
   Those within enemy charge reach may at any time halt and take up a defensive formation.
   They will still be subject to the latest order received and must attempt to carry it out if the charge threat is removed.
- 2. A unit cannot be told to move to a feature that it cannot see from its starting point, although it can be told to move in a direction that will eventually take it to the unseen feature.

  Unless a route is laid down in orders, a unit will proceed direct to its objective or in the direction ordered.
- 3. Cavalry and fanatic infantry may always attempt to countercharge if their reaction bettered "Halt".
- 4. Light or light-medium infantry, cavalry, camelry and chariots may be ordered to skirmish if armed with missile weapons. The word 'skirmish' MUST be written.
  - They will close to within their own missile range and shoot, but may evade, subject to reaction, if the enemy would otherwise come into contact.
  - Skirmishing infantry will always evade unless their reaction result is "Act as general wishes" or "Uncontrolled advance".
  - Skirmishing mounted troops will always evade if their result is "Halt" or less, and may always choose to evade unless it is "Uncontrolled advance".
  - If evaders are successful in avoiding contact, they must return to shoot again as soon as they are reorganised.

The evade move need not necessarily be carried out by the whole unit, but may be confined to the troops threatened. However, if those evading are the majority, the remainder take a "Half strength" test to see if they conform.

- 5. An order to support another unit will be taken to mean "Assist in any way possible". This assistance can include skirmishing with its enemies. Sub-units automatically support their parent unit.
- 6. Missile troops do not need specific orders to shoot, but can always engage targets within reach nominated by the target priority rule.

## CHANGE OF ORDERS

- 1. New orders can be issued at any time, but must be justified by events visible to the General figure or reported to him by messengers.
  - The orders must be passed to the unit concerned by messengers who travel at normal speed for their type, except that they can move at charge speed for one period during each trip, as can the general.
  - The messengers count as a patrol of 20 men for fighting purposes, and can form a bodyguard when not otherwise employed.
- 2. One complete period is required to dictate an order, listen to a report, or for a unit to digest a newly received order. This is not hindered by normal speed movement.
- 3. Simple pre-arranged visual or trumpet signals can be used. These can reach any formation with a figure within 250 paces of the General figure and affect all units that see them, unless they have been told in advance that the signal does not concern them.
  Barbarian generals or troops can only make or understand 2 signals, regulars up to 5.
  Only one signal can be made each period, and they cannot be used in combinations.
  Troops receiving them obey next period.
  Players must define both the type and meaning of the signal in advance and in writing, so as to be able to satisfy both opponent and umpire when they are used.
- A general may join a unit and shout "Follow me". It will then follow him next period without spending any time digesting the order.
   He must remain in its front rank until he has given it further orders and it has digested them.
   He cannot do this if he controls a bodyguard of more than 5 figures including his own.
- 5. A subordinate general can only move and order troops under his control and in accordance with orders given him by the C in C.
- 6. When new orders are issued, they should be written down on the order sheet at once, but are not implemented until the messenger reaches his destination, this implementation to be shown on the order sheet by underlining the order.
  When the order has been carried out and completed, or replaced by a new order, or the unit has routed or advanced out of control, it should be crossed out with a diagonal line. The unit can then wait for new orders to reach it, or take a "No current order" reaction test.
- 7. When a reaction test results in "Act as general wishes" a new order may be written down, underlined and acted on immediately.

#### STANDING ORDERS

These may be provided in advance, stating the ways in which the various types of troops will behave in varying circumstances, or expanding a general instruction given in the orders proper. For example, you might write the simple order "Harass", and define this in standing orders as meaning "Skirmish with heavy or medium troops facing in good order, but charge light, disorganised or outflanked troops and stray generals "These standing orders are equivalent to a regular army's manuals, or a barbarian tribe's orally handed down traditional methods.

Such standing orders must be handed to the Umpire at the start of the game, and he will decide how and when they will apply. Standing orders left at home are not acceptable as evidence!

## LOSS OF ORDERS

A unit which has made an uncontrolled advance or been broken is treated as having forgotten all orders, including standing orders. It will, however, remember the meanings of signals. When new orders arrive, or a "without orders" reaction test is taken, standing orders will once more apply.

## THE REACTION TEST

The object of this test is to simulate the pressures and stimuli that may affect a unit's reaction on the field, taking into account the type of troops and their situation as well as the orders they may have been given.

- 1. The following compulsory tests may affect either an entire unit or a sub-unit.
  - (i) When a unit, or a sub-unit which is separated by a gap of 10 paces or is in a rank of its own, receives 2 casualties per figure from missiles in a single period — IMMEDIATELY THIS HAPPENS.
  - (ii) When animals are asked to go within 30 paces of a fire, or are within 60 paces downwind of a fire in a strong wind, or when elephants are attacked with fire.
  - (iii) When a unit or sub-unit falls below half strength in figures IMMEDIATELY THIS HAPPENS.

If the unit is engaged in hand-to-hand combat, it will ignore friendly troops more than 30 paces distance, but will count all other favourable or unfavourable factors. A unit getting worse than "Halt" will continue off the field and will not return. If completely surrounded, it will surrender.

A sub-unit getting worse than "Halt" will retire to its main body in rout and rally behind them. If prevented, it will surrender.

The test is repeated each time the unit or sub-unit loses an additional figure. The test also applies to the remainder of a unit or sub-unit when the majority are forced to rout, evade, or are cut off by the enemy.

If they get worse than "Halt", they will rout, evade or break respectively.

- 2. The following compulsory tests affect the main body of a unit and all those sub-units of it that are within sight and normal move distance of it, even if only part of the unit is aware of the reason for the test.

  (i) The first time the unit is shot at or comes within charge reach of enemy troops for the circ.
  - (i) The first time the unit is shot at or comes within charge reach of enemy troops for when subsequently sighting, or being shot at by, an enemy previously hidden by natural cover, at a range of 100 paces or less, unless previously explicitly warned of their presence.
  - (ii) When troops who are neither fanatics or in uncontrolled advance attempt to charge BEFORE THE CHARGE STARTS.
  - (iii) When being charged WHEN AND IF THE CHARGERS EXCEED NORMAL MOVE DISTANCE.
  - (iv) When any friendly unit within 150 paces breaks, routs past, or bursts through.
  - (v) When troops with orders to hold their present position have thrown back an attack, they must test to see if they pursue in spite of their orders. Results worse than "Halt two periods" are ignored.
  - (vi) When a broken and routed unit is attempting to rally.
  - (vii) When a fresh enemy force of at least 50 figures appears on the battlefield at least 5 periods after the start of the battle.
  - (viii) On the death, capture or disablement of their general or C in C within 150 paces or as a result of a challenge to personal combat.
  - (ix) When an army reaction test is called for because 1/3 of the armies original units are off the table for some reason.

Each unit not already following a reaction instruction must test.

Units of subject levies or mercenary arabs will change sides if they get better than "Halt".

Mercenaries other than arabs will march home in good order if they get better than "Halt".

Tests similar to those under 2. can also be taken voluntarily at the players discretion at any 3. time except:

When the troops are engaged in hand-to-hand combat. (i)

When they are in rout and not allowed to attempt to rally. (ii)

When they are engaged in a compulsory period of pursuit. (iii)

When rallying back or reorganising. (iv)

- When carrying out a positive reaction table instruction, some of which last for two or (v) more periods.
- Where not otherwise stated, all tests take place at the end of a period. When several tests are due simultaneously, their results are cumulative, i.e. if the first unit tested breaks, the second counts ' friendly unit in rout" and so on. Such simultaneous tests should always be taken from right to left, so that the least reliable wing of an ancient army is worst affected.

## Procedure

Throw three dice — use probability dice numbered 2, 3, 3, 4, 4, 5 for regular troops, normal or "wild" dice numbered 1, 2, 3, 4, 5, 6 for barbarians.

Add or deduct the factors in the following tables, which are cumulative.

Find the column in the appropriate reaction effect chart that corresponds to your troop class, then follow down it until you come to figures corresponding to your final reaction score.

Then read across to your reaction instructions.

When 1/3 of original figures are lost or separated, use only 2 dice, if ½, use only 1 dice.

Addition of ONE for the following: Each friendly unit within 150 paces and

in sight.

Any other friendly troops in sight.

Any friends advancing within 150 paces.

Any friends charging within 150 paces.

Support to rear.

Any enemy retiring within 150 paces.

Any enemy unit within 150 paces presenting

flank or rear.

Uphill from any enemy within 150 paces. Friendly cover within 100 paces.

Deduction of ONE for the following:

Each enemy unit within 150 paces and facing.

Any other enemy in sight.

Any enemy cavalry within 150 paces.

Any enemy advancing within 150 paces. Being shot at by at least half own numbers. Being shot at by engines and not having

moved 40 paces during the period. Any enemy partly behind flank and within

its charge reach. Any enemy partly in rear and in its charge

Any enemy uphill within 150 paces.

Any friends retiring within 150 paces.

If disorganised.

Each 1/5 of original strength lost or separated. Own unit retiring.

Own troops armed with bows or crossbows. Own troops do not carry shields.

Charging or charged by, fanatics. Hostile Huns within 150 paces.

Addition of TWO for the following:

Fanatics within charge reach of an enemy but not yet in contact.

Each enemy unit routing within 150 paces.

Deduction of TWO for the following:

Each friendly unit routing within 150 paces. Unfriendly cover within 100 paces.

Enemy elephants or chariots within 150 paces. Animals within 100 paces of, or attacked with,

Surprised by enemy emerging or shooting from cover within 100 paces.

Horsed troops disorganised by elephants or camels.

Sub-unit beyond sight or normal move of its main body.

At least 50 fresh enemy seen to arrive after 5 game periods.

General killed, wounded, captured or routed off field during game, within 250 paces or as a result of a challenge.

Testers are in rout, or have been earlier in the game.

Testers are "E" types in rout.

Army reaction test. L.I. testing to charge of be charged by heavier of mounted troops.

## Addition or subtraction, according to players choice.

General with testing unit, providing that both are not routing together.	3
General within 150 paces of troops under his direct command or controlled through a	
subordinate general, provided he is not retiring or routing.	1
Troops behind cover, forming hollow square or behind field defences.	2
Each secure flank	1

#### **Definitions**

Support to rear: A friendly unit within normal move distance, immediately to the rear, and

neither disorganised nor engaged in hand-to-hand combat.

Secure flank: Friendly cover within 10 paces of the flank, or flank resting on impassable obstacle, or a friendly unit in contact with the flank, or within charge reach of

it and not already engaged in hand-to-hand combat.

Friendly cover: Known to be occupied by friendly troops, or known to be free of enemy troops.

Unfriendly cover: Known to be occupied by enemy troops, or about which nothing is known.

Within: "Within" implies measurement from the nearest figure of a formation to the

edge of an object or the nearest figure of another unit.

Such objects or figures should also be in view, of at least one figure, even if he

must turn his head.

On level ground, only the nearest rank of a force can be seen, except for elephants,

which can be seen over their heads.

Forces or objects on the far side of an impassable obstacle should only be

counted if the necessary detour is less than the prescribed distance.

Enemy Unit facing:

it Testers are not entirely behind its flank.

## **REACTION EFFECT CHARTS:**

1. Unit still subject to current order.

A	В	С	D	Е
-2	-1	1	2	3
-1 TO +2	0 TO 2	<sup>2</sup> то 3	3 TO 4	4 TO 5
3	3 TO 4	4 TO 5	5 TO 6	6 TO 8
4 TO 13	5 TO 13	6 TO 13	7 TO 12	9 TO 12
14 TO 16	14 TO 15	14 TO 15	13	13
17	16 +	16 +	14	14 +

BREAK AND RUN, IF UNDER FIRE OR BEING CHARGED – OTHERWISE RETREAT (BACKS TO ENEMY) FOR 3 PERIODS

RETIRE – DISORGANISED, BUT WILL FACE ATTACK – 2 PERIODS

**HALT - 2 PERIODS** 

CARRY ON WITH CURRENT ORDER OR TAKE ANY PERMITTED OPTIONAL ACTION

ACT AS C in C WOULD WISH – WRITE NEW ORDER AND IMPLEMENT AT ONCE

UNCONTROLLED ADVANCE IN ATTEMPT TO CONTACT (2 PERIODS) AND CONSIDER CURRENT ORDER CANCELLED

2. Unit no longer in possession of current order, or order completely carried out and not replaced

				$\overline{}$
A	В	С	D	E
-2	-1	1	2	3
-1 TO +3	0 TO +4	2 TO 5	3 TO 6	4 TO 8
4 TO 7	5 TO 8	6 TO 9	7 TO 10	9 TO 11
8 TO 12	9 TO 12	10 TO 13	11 TO 13	12 TO 13
13 TO 15	13 TO 15	14 TO 15	14	14
16	16 +	16 +	15	15 +

BREAK AND RUN, 1F UNDER FIRE OR BEING CHARGED — OTHERWISE RETREAT (BACKS TO ENEMY) FOR3 PERIODS

1F PURSUING HALT — DISORGANISED — 1 PERIOD 1F ALREADY HALTED — RETIRE FOR 2 PERIODS

MOVE TOWARDS NEAREST FRIENDLY TROOPS BUT AWAY FROM ENEMY – OR MOVE TOWARDS NEAREST COVER OR HILL IN REAR – 2 PERIODS

MOVE TOWARDS NEAREST ENEMY -2 PERIODS

ACT AS C in C WOULD WISH — WRITE NEW ORDER AND IMPLEMENT AT ONCE

UNCONTROLLED ADVANCE IN ATTEMPT TO CONTACT (2 PERIODS).

## MOVEMENT

#### GENERAL.

Both sides move simultaneously, before any shooting or hand-to-hand combat is adjudicated. The normal move for heavy and medium infantry is based on walking speed, that for light-medium and light infantry on a jog trot.

That for extra heavy, heavy and medium cavalry is based on a combination of walk and slow sitting trot, that for super heavy cavalry on walk alone, and that for light cavalry on an easy canter. Troops with metal armour have their moves slightly reduced.

## CHARGING

A charge is any move intended to result in hand-to-hand combat with an enemy who is within reach at the start of the period.

It must be declared before any movement by either side takes place.

The opponent then decides which of the counter actions permitted him, "countercharge", "standfast" or "evade" to use.

A unit with orders to charge any enemy coming within reach will count as countercharging, even if no charge is intended against it.

The same applies when a unit ordered to support another sees it threatened.

A charge move is assumed to start at normal speed, but also assumes that cavalry will break into a gallop as soon as possible after coming within 150 paces of the enemy, and that infantry will cover the last 30 paces at a run.

As manoeuvre is extremely difficult at gallop or run, all turns, wheeling or formation changes must be completed before normal move distance is exceeded. All remaining movement must then be in a straight line at right angles to the charging units front.

A charge normally terminates on the line of first contact. However, the charger may if he wishes move figures not in contact straight forward to the full extent of their move provided they are still in base contact with his main body, thus getting more in combat, but may not turn or wheel them, even if being charged in flank.

## **EVADING**

An evade move is an attempt to avoid contact, possible only to troops ordered to skirmish. It is equivalent in length to a normal move, but includes an initial turn directly away from the enemy. No deduction is made for this turn.

The evade is measured from the nearest point to the enemy that would have been reached had he not advanced. Any further changes of direction must be turns, not wheels.

Evaders who do not move far enough to get beyond reach of the charging units remaining move distance are caught with their backs turned and cannot defend themselves.

If they do have enough move to get clear, they will halt at the end of the move and remain halted reorganising for the whole of the next period.

In this case, the chargers must rally back during the period following their charge. This does not apply if the movement the evaders avoided was not intended to result in a contact except accidentally.

If evaders have any figures more than 2 ranks deep, their evade distance is halved.

Evading troops can pass through a friendly unit. If chargers wish to follow, both must test reaction, irrespective of the distance at which the second enemy formation is first sighted. If contact results, the chargers are not disorganised by their pursuit, as it is still part of the original charge.

## UNCONTROLLED ADVANCE

This can only be initiated by a reaction test.

Organisation is lost during the second period of advance, or earlier if a change in the original direction is attempted, as each figure turns individually instead of the unit wheeling.

Movement is at charge speed during the first period, and at charge speed minus 30 paces during the second. The first period of any rout or pursuit immediately ensuing will then count as a second. If no enemy has been contacted by the end of the second period, the unit will halt and spend a period reorganising.

## RALLYING BACK

This should not be confused with rallying from a rout.

A unit rallying back turns and moves as nearly as possible straight back for 100 paces, or a normal move, whichever is the lesser.

It then halts, facing the most important threat, ready to charge again next period.

As this simulates troops wandering back as individuals and falling in on their officers, the unit can rally in any desired formation.

## MOVING IN HOLLOW SOUARE

Troops moving in hollow square do so at half normal speed only.

They require ¼ period to turn to meet an attack from any direction except that in which they are moving, regardless of troop type.

Squares have no flank or rear, but the troops comprising them may still present an unshielded side while in movement.

## CHANGES IN DIRECTION

Changes of direction can be carried out by wheels or by turns.

Wheels by columns not more than 60mm wide, which are of not less than 30 paces inside diameter, and turns made while, rallying back, rallying from rout, changing the direction of an uncontrolled advance, or initiating an evade, rout or break away, do not reduce the distance moved.

Regular infantry and cavalry, and barbarian light infantry and light cavalry, take ¼ period to turn 90 or 180 degrees.

When wheeling, their inner figure remains stationary as a pivot, while the outer figure moves at normal speed forward or half speed backwards.

Barbarian light-medium and heavier troops, elephants, engines, camels, chariots and other vehicles take ½ period to turn, and wheel, forwards only, at half speed.

#### FORMATION CHANGES

Regular units frontages can be expanded or reduced by 4 figures in each ¼ period, barbarians frontages by only 2 figures, reducing time available for other movement.

Appearance contraction in the same degree as the reduces movement. Mounting or dismounting takes a ½ period. No animal holders are required as the horses or camels are assumed to be picketed 60 paces behind the initial position of the fighting line. The troops must teturn to this spot to remount.

## EFFECT OF DISORGANISATION ON MANOEUVRE

All delays and movement reductions for changes of direction or formation are doubled for disorganised troops.

## **PUSH BACKS**

When troops are adjudged to have been pushed back by their opponents during a period of hand-to-hand combat, this is assumed to have happened more or less gradually during that period, but is deducted from move distance for the NEXT period.

#### DIFFICULT TERRAIN

Movement in the following conditions counts as twice the actual distance for infantry, four times the actual distance for cavalry, who in addition are limited to normal moves except when in rout, and is impractical for vehicles.

- 1. Off-road movement on steep hills.
- 2. Among buildings and garden enclosures, or through breaches in stone fortifications.
- In woods.
- Over boggy ground.
- Over soft sand.
- 6. Over linear obstacles such as streams, ditches, walls and hedges, all of which are assumed to have a minimum width of 20 paces, as space is needed for troops to sort themselves out prior and subsequent to the crossing, and for cavalry to have room to jump at practicable points.

Elephants are treated in the same way as cavalry in cases 2 and 6, and in the same way as vehicles in all other cases.

Camels are treated in the same way as infantry in case 5, and in the same way as vehicles in all other cases.

Man-handled bolt-throwing engines have the same limitations as cavalry.

Movement in the following conditions is only practical for infantry, who count double the distance.

- 1. On stairs or ladders, including scaling ladders when attacking stone fortifications.
- Inside buildings.
- Over marsh.
- 4. Off-track movement on rock slopes.
- Over palisades, turf ramparts or abatis.

There is no movement penalty for slight hills less than 40mm high, although these still count as height advantage for vision, shooting or melee.

Rivers at least 30 paces wide can only be crossed by elephants, cavalry or swimming light or light medium infantry, all counting four times the actual distance.

Rivers twice this width can only be crossed by light cavalry, and those three times the width cannot be crossed at all.

None of these restrictions apply to fords, which count as no obstacle if less than 30 paces across, and as double distance for all troops if further, and therefore deeper.

Movement on roads is always at the speeds for good terrain, except that on steep hills, mounted troops of all types are restricted to normal move distances at all times.

## INTERPENETRATION

Light infantry can pass through any stationary troops in good order. Light cavalry can pass through stationary light cavalry or light infantry in good order. All other interpenetrations result in both parties becoming disorganised.

## MOVE DISTANCES

		Norm	ıal	Charge	
Super heavy cavalry and camels	80	, . pa	ices	120 paces	
Extra heavy cavalry and camels	)			73	
Heavy cavalry and all other camels	>	112	८०	180	
Medium cavalry				ه نا	
Light cavalry		160		240	
All chariots with crews of 2 men or less, or with more horses than men and more than 2.		1,	20	180	
All other horse or ass-drawn chariots		. 4	30	120	
71 1 44		80		100	
& light-houry		80		100	
Light sol light-houry  Light sol light-medium infantry  Medium infantry & houry infantry.		60		80	
Heavy infantry				,	
Mounted infantry and pack horses or mules			120	None	
Dismounted cavalry		20 j infa	paces less intry in a	than equivalen ll respects.	t
Man-handled light bolt-throwing engines		60		None .	
Dart-throwing engines drawn by mules			120	None	
Engines drawn by oxen		20		None	
Ox or horse-drawn wagons		40		None	
Siege towers and penthouses		20		None	
		120		None	
Ships under oars					

## DISORGANISATION AND DISTRACTION

This heading is used to cover those factors, physical and psychological, which temporarily affect a unit's efficiency.

Recovery is automatic when all the possible causes are removed, unless being pushed back in melee.

A disorganised unit or sub-unit counts half the figures of its nearest rank only when shooting or fighting, and its ability to change formation or direction may be reduced. These penalties are imposed only once, regardless of the number of causes operating.

## Possible causes are:

Having routed and not yet rallied, been engaged hand-to-hand by a fresh enemy force while pursuing, or being in process of rallying back, or reorganising, or having been caught sleeping. Being contacted in a charge before completing, a formation change, mounting or dismounting, Mounted or embarking or disembarking, or while not facing within 45 degrees of the direction of charge at the moment of contact. Mounted infantry will always attempt to dismount to fight.

- Formation split by a gap at least 10 paces wide. 3.
- Having suffered 1-casualty per figure from missiles earlier in the same period. In faulty pushed back by Troops other than light or light-medium infantry, having had their movement obstructed by 4. 5.

difficult terrain during the current period. 6. contacted by charging mounted troops, who have moved at least 60 paces.

- Horsed troops within 30 paces of camelous elephants, if there are any in their own army, or within 100 paces if there are not or non-Avab housed twops within 30 paces. 7.
- Moving out of control for the second period in succession, or changing direction while out 8. of control.
- During a period following one in which elephants or chariots have been met in hand-to-hand 9. combat.
- Troops whose formation has been interpenetrated during the current period by friends other 10. than those allowed to do so without penalty, or who are being pushed back against an impassable obstacle or unyielding friends.
- Electronic more client one of whose view fought as long span on piles during the proceeding period.

## **USE OF SHIELDS**

Figures shot at or attacked from the rear or from behind an unshielded flank, or with no shield at all, or simultaneously using a weapon needing both hands such as bows, staff-sling, pike, long axe or rhomphaia, or using hands for climbing, carrying or pushing, cannot use shields. The only exceptions are super heavy cavalry, who do not need shields because of their exceptionally complete armour. Extra heavy do need shields, even when counting as SHC. Troops overlapped by an enemy line which has not bent round them do not count as shieldless unless other reasons apply.

## SHOOTING

## **GENERAL**

The results of shooting are evaluated after all moving has been completed and before hand-to-hand combat commences, but the shooting itself can be assumed to take place at any suitable time within the period.

## AMMUNITION SUPPLY

This is not taken into account. Initial issues and replenishment at unit level, together with salvaged enemy missiles are assumed to be sufficient.

## SHOOTING ARCS

Light cavalry and camelry, elephant riders and chariot crews can shoot all round.

Other light troops and light dart-throwing engines can shoot within 45 degrees of straight ahead.

All other troops and engines can shoot within 22½ degrees of straight ahead.

## TARGET PRIORITIES

All missile weapons which are not hand-hurled must obey the following target priorities.

- 1. An enemy formation advancing towards them and capable of charging them during the present or following period.
- 2. At least half their own number of missile men shooting at them and within their own range.
- Enemy attacking or shooting at friendly troops that they are directly ordered to support or
  who form part of their own unit, or enemy who they have been ordered to treat as a priority
  target.
- 4. Any enemy missile men firing at them.
- 5. Advancing enemy.
- Nearest enemy.

#### RANGES

Hand-hurled weapons	40 paces
Archers mounted on horses, camels or elephants or in chariots	180 Per paces
Foot archers	240 paces
Slings	120 paces
Staff-sling	240 paces
Cross bows	300 paces
Projectile-throwing engines	480 paces

Troops who are uphill from their targets or who are carried by an elephant or fighting from a raised rampart add 20 paces to these ranges.

Troops higher up a terrain slope are always considered to be higher than an elephant or fortification.

Troops downhill from their target or shooting up at a rampart or similar, but NOT those shooting at elephants, deduct 20 paces.

All missile weapons have their maximum ranges reduced to 20 paces when shooting inside a wood. This does not apply to weapons at the edge shooting out.

Pila, similar heavy throwing spears and franciscas are not thrown at a distance and are treated only as melee weapons.

## SHOOTING ON THE MOVE

All troops except engines, staff-slings and crossbows can shoot while moving forward. Light cavalry and camelry can shoot behind while retreating as well.

If one body of troops moves through another, only one of them may shoot.

Mounted infantry must dismount to shoot.

## SHOOTING DURING A CHARGE OR PURSUIT

Troops armed with missiles other than hand-hurled weapons can shoot at an enemy charging from more than half his move distance away before evading or taking up hand-to-hand weapons.

Charging or pursuing troops may only shoot if the enemy succeeds in moving out of reach, and will then do so at the end of their move. They will count disorganised because they have not yet rallied, but their targets will be assumed to have their backs turned and will count shieldless.

The effect of hand-hurled weapons during or immediately preceeding close combat is included in hand-to-hand combat weapon factors.

## SHOOTING OVERHEAD

2) Shooting with bows over one rank of the same unit if cavalry or barbarian

or over 3 ranks if regular infantry.

This is not allowed to units that move or interpenetrate during the period or are disorganised or if 1 of preceding ranks is detached.

All such shooting is penalised by a tactical factor except when 1) Shooting down from a slope with no intervening friends within 20 paces of target or shooters.

2) Shooting from a vertical elevation such

## SHOOTING INTO A MELEE

as an elephant or rampart.

Front rank figures engaged in hand-to-hand compat or any troops of a unit which is pursuing or pursued and is still in contact are not admissable as a missile target.

#### CREW-SERVED WEAPONS

Chariot or elephant crews, except for the driver, may shoot as horse bows or javelins depending on their equipment.

Each crew figure for an engine has the same effect as a crossbowman, but at increased range.

## **WEAPON FACTORS**

These are used in conjunction with tactical and random factors and the number of figures engaged to calculate enemy casualties.

There is another set of weapon factors and tactical factors for hand-to-hand fighting. As the method of calculating casualties is the same in both instances, it is given elsewhere in the rules instead of being duplicated.

Weapon factors for shooting at various targets are as follows:

choff-clines	SHC.	HC.	MC.	LC.	HI.	M1.	Ll.	E1.	Ch.
siaff-slings Crossbownen and engine crews.	1	1	I	0	1	1	0	1	0
Darts, javelins, slings and bows.	0	3	4	2	2	3	2	1	ŀ

## SPECIAL TARGET VULNERABILITIES

Elephants and chariots are mentioned in the weapons factor table, and engines have the same vulnerability as light infantry, the cover provided by the machines cancelling out the shieldless factor.

Casualties to all these are computed as elephants, engines, chariots etc., not as individual crew members. 20 hits are needed to disable a model, although it represents 8.

Engine groups share casualties as if they were formal units.

Light-moops with any figures more than I tank to be to our as a wiedilm tanget.

Light-medium infantry count as a medium infantry target, light-house infantry can a to our target.

Extra heavy cavalry count as a super heavy cavalry target when shot at by figures to their front and as a heavy cavalry target to figures behind their flank.

Cavalry engaged in mounting or dismounting always count as a mounted target.

Dismounted cavalry count as their infantry equivalent except for super heavy cavalry, who count as if still mounted. Riderlass arimals, effor than elephants, crunt as shielded H.C. target unless armoused, when normal factors for S.H.C. or shielded E.H.C. will apply.

## TACTICAL FACTORS

These are added to or subtracted from the weapon factors.

Subtract I if:
Crossbows or fact or mounted archers with any figures sheating at more than
I. Boot archer unit with any of its lighter shouling overhead and to flat. half varige.

2. Troops other than stone-throwing engines shooting at enemy in partial cover.

3. Shooting at troops which are moving at least 60 paces during the period.

4. Months of the action thing at more than 60 or 100 paces range reporting.

Any figures are penalised for shooting overhead.

Add I is:

Light or

1. Shooting at cavalry or heavy infantry who are unable to use their shields, with any weapons except engines.

#### Add 2 if:

1. Shooting at medium infantry who are unable to use their shields, with any weapons except engines.

#### RANDOM FACTOR

This is added to the total of weapon factor and tactical factors.

Throw one red or green probability dice numbered 2,3,3,4,4,5 counting minus, and one black or blue dice counting plus. The plus dice should be a probability dice for regulars, a normal dice for barbarians. For all but "E" types, subtract I if the minus score is higher, add 1 if the plus score is higher. "E" type troops, combining lack of enthusiasm and incompetence in various degrees, disregard an overall plus result, and subtract the full difference between the two scores if the overall result is minus.

## HAND-TO-HAND COMBAT

## FIGURES ELIGIBLE TO TAKE PART

- 1. Figures in base to base contact with an enemy to their front, or overlapping by one figure on the shielded side or by 3 figures on the unshielded side or overlapping super heavy cavalry, chariots, engines or elephants by 2 on either side. Elephants, engines and Chariots may themselves only overlap by one on either side.
- 2. Regular heavy or medium or light-medium infantry not engaged in firing, in a rank permitted to fight, and directly behind a figure eligible under 1.
- Figures in base to base contact with the enemy flank or rear after lapping round in a second or subsequent period of fighting.
   Lapping round is limited to troops who have not been pushed back during the previous period.
   Any previously unengaged enemy troops of the attacked unit can turn and move to meet such an attempt, and may prevent it.
- 4. Engines, chariots or elephants in base contact with an enemy to their flank or rear.

## WEAPON FACTORS

These vary according to the weapon in use and the type of target.

	Regular ranks permitte to fight.	ed	HC.	MC.	LC.	H1.	M1.	L1.	E1.	Ch.
Cavalry armed with knightly lance or 12ft. kontos, and with a period of each whelever.	1	2	3	4	3	4	5	3	0	1
Cavalry armed with short spear and/or javelins, and with short spear and/	1	0	2	5	4	3	4	5	1	2
Cavalry armed well bow and sweet.	1	0	1	2	3	`1	2	4	1	1
Infantry armed with two-handed 18ft. pike and sword.	4	1	2	3	0	2	3	1	1	2
Infantry armed with short thrusting spear up to 7ft. long or long thrusting spear up to 12ft long and sword.	1½	0	3	4	1	3	4	2	0	1
Roman and German medium or heavy infantry armed with pilum or other heavy throwing spear or francisca and with sword.	1½	1	2	2	2	4	5	4	1	2
Infantry armed with darts or light javelins and with sword.	1½	0	1	1	3	3	4	5	1	2
Infantry armed with two-handed axes, swords or rhomphaia.	1	4	5	5	1	5	5	2	1	1
Slinger, archer, crossbowman or artillerist armed with short sword or similar.	1	0	1	1	1	1	2	3	1	2
Elephant and driver	1	2	2	3	1	3	4	2	1	3
Chariot and driver Add 1 for each crewman using long spe	l ear or pil	3 ce, 2 f	4 or jave	5 elinma	3 in, 1 f	4 or arc	5 her, or	2 arme	0 d drive	4 er.

Troops armed with two classes of weapons may choose to use either.

The number of ranks allowed to fight have been selected to encourage the use of tactical formations actually described in ancient military manuals.

## CREW-SERVED WEAPONS

If engines are caught in melee, each crew member fights.

Elephants and chariots differ in that the beast or vehicle fights but the weapon factor is increased for each crew member additional to the driver.

When elephants or chariots are engaged in flank or rear but not frontally, only the crews share of the weapon factor counts. Crews should not be dismounted.

Celts are already assumed to fight immediately around as well as inside their chariots.

Casualties on engines, elephants or chariots are deducted as for missiles.

## TACTICAL FACTORS

These are added to or subtracted from weapon factors.

## Subtract 1 if:

Fighting an enemy who is behind partial cover such as a wall or parapet. The edge of a wood 1. does not constitute such cover in hand-to-hand combat.

Troops except pike-armed infantry, who are facing infantry armed with pikes or long spears who are not have properly the current meter, or elephants or charles armed with presents during their second and subsequent periods of close combat of the game. I was spears, For EACH causalty par figure received from missiles during the current paried. Add I if: light or

- 1. Fighting cavalry or heavy infantry who are unable to use shields.
- 2. Own troops are charging, counter-charging or following up.
- 3. Own troops are up slope of their opponents, or moved down a slope to engage them during the period.

## Add 2 if:

- 1. Fighting medium w infantry who are unable to use shields.
- 2. Fighting against the flanks or rear of super heavy cavalry.
- 3. Fanatics during their first period of close combat during the game.

#### RANDOM FACTOR

This is added to the total of weapons factor and tactical factors.

If regulars are fighting, throw one red or green and one black or blue probability dice numbered, 2, 3, 3, 4, 4, 5. Red or green counts minus, black or blue plus.

Add or subject the whole of the result.

If barbarians are fighting, the black or blue dice should have the normal numbering of 1, 2, 3, 4, 5, 6 as they are less predictable.

Apart from this, the procedure is the same as for regulars, except that "E" type troops, combining lack of enthusiasm and incompetence in various degrees, add only 1 if the overall result is plus. They still deduct the full difference in case of a minus result.

If the General fights hand-to-hand in the front rank with his troops, the unit he is with disregards any minus random factor, unless composed of "E" types.

This is especially valuable for barbarian troops.

However, if a barbarian general refuses a challenge to personal combat by an opponent of equal rank, he loses this power.

## CASUALTY CALCULATION

Having added the appropriate weapon factor, and tactical factors that apply, and the random factor, read down the column on the extreme left of the table below until you come to the equivalent number. Then read across until you come to the column corresponding to the number of your troops firing or fighting.

The box where row and column meet gives the number of enemy casualties in men. Divide by 20, remove that number of figures, carry the remainder forward.

Total of Factors

## NUMBER OF OWN FIGURES

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
-5	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3
-4	0	0	0	0	1	1	1	1	2	2	2	2	2	2	3	3	3	3	4	4
-3	0	0	1	1	1	2	2	2	3	3	3	4	4	4	5	5	5	5	6	6
-2	0	1	2	2	2	3	3	3	4	4	4	5	5	6	6	6	7	7	8	8
-1	1	1_	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10
0	1	1	2	3	3	4	4	_5	6	6	7	7	8	9	9	10	10	11	12	12
1	1	2	2	3	4	5	6	6	7	8	9	10	10	11	12	13	14	14	15	16
2	1	3	4	5	6	8	9	10	11	13	14	16	17	18	19	21	22	23	24	26
3	2	3	5	6	8	9	11	13	14	16	18	19	21	22	24	25	27	29	30	32
4	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
5	3	5	8	10	13	15	18	20	23	25	28	30	33	35	38	40	43	45_	48	50
6	3	6	9	13	16	19	22 -	25	28	32	35	38	41	45	48	51	54	57	60	64
7	4	8	_12	16	20_	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80
8	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
9	6	13	_19	_25	32	38_	44	50	57	63	69	76	82	88	95	101	108	114	120	126
10	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	136	144	152	160
11	10	20	_30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
12	13	25	38	50	63	76	88	101	114	126	139	151	164	176	189	207	214	227	240	252

If number of figures involved exceeds 20, read chart in multiples of 10+ remainder, i.e. 32 figures at factor of 3 is  $3 \times 16 + 3 = 51$ . If the Total of Factors is 13 or more, each figure fighting scores 3 extra casualties for every factor over 12.

## Example:

10 slingers exchanging fire with horse archers galloping past their front.

Slingers weapon factor against light cavalry is 1. (New 2)

Tactical factors are - 1 because cavalry are moving more than 60 yards, +1 because horse archers cannot use shields while firing.

Red dice scores 3, black dice 5, Black is higher, so add 1.

Total of factors is 2.

10 men firing with factor of 2 cause 13 casualties.

No figures removed, carry 13 casualties forward.

## AFTER HAND-TO-HAND FIGHTING

A unit or sub-unit, who in melee received more easualties than they inflicted, and have had 1 casualty per figure from melee and missiles combined, are pushed back 30 paces.

Their opponents must follow up unless they have orders to the contrary, such as to hold the position they now occupy, or are infantry receiving a mounted charge while halted, in which cases they must not.

Cavalry and chariots, but not eamelry and elephants, who have been forced to recoil 30 paces but have not been followed up, must rally back before they can charge again.

may either rally back or reorganise on the spot, taking one period. The defenders do not need to reorganise but cannot advance that period.

A square which pushes back its opponents may advance on any face it chooses, the other faces then being out of contact next period.

If a unit or sub-unit should be pushed back but has no room to move, it is disorganised until it pushes its enemy back. It will not push back friends, unless they are light troops with no figures more than 3 deep.

A unit or sub-unit who in melee received twice as many casualties as they inflicted and had I casualty per figure from melee and missiles combined are broken.

A unit or sub-unit who have been pushed back for a number of consecutive periods may also be broken. "A" types break on the 5th push-back, "B" types on the 4th, "C" types on the 3rd, "'D" types on the 2nd, and "E" types on the 1st.

If no unit or sub-unit breaks, the melee continues.

However, troops engaged in hand-to-hand fighting can break off voluntarily and retire. All except chariots and elephants, whose crews can fight all round, will receive blows without reply as they turn. All will be broken if, and only if, they fail to outdistance pursuit that period. Such breaking off must be justified by orders or standing orders.

Engines follow up a retiring enemy only with missiles. An engine group which is broken is destroyed by the initial period of pursuit.

A push-back loses all engines within that distance.

Engines and their transport are destroyed, not eaptured.

#### RISK TO THE GENERAL

A figure representing a General and his 19 inner bodyguards must take a proportionate share of casualties from hand-to-hand fighting or missiles. Divide the total casualties from hand-to-hand combat by the number of figures fighting in the front rank, missile easualties by the total number of figures under fire.

Debit this share from the General figure.

Multiply the number of easualties on the figure that period by the score of one dice of appropriate type

If the result exceeds the number of men remaining in the figure at the start of the period, the general is wounded and must be escorted from the field by his men, or surrender if this is impractical. If the figure loses all its men, the general is dead.

Missiles can only be concentrated on the figure if it is more than 50 paces from one of its own units and is neither moving to give or accept, or returning from, a challenge; or if it stands clear vertically, as when mounted on an elephant or standing on a tower.

If a General accepts a challenge to personal combat, the two figures fight hand-to-hand, first exchanging missiles, if any, the normal no shooting during a charge rule not applying. Normal weapon, tactical and random factors apply, including minus random factors. The only reasons for disorganisation that count, are when a chariot or elephant mounted General receives a missile easualty, or when horses are scared by elephants or camels, If a General is mounted on an elephant or in a chariot, any other armed figures aboard are-debarred from assisting.

A General who receives more casualties than his opponent is wounded and taken prisoner, one who receives twice as many, dead. If easualties are equal, fight again with hand-to-hand weapons only.

Loss of the General leads to a reaction test, not necessarily to the loss of the game.

Other troops

#### ROUT AND PURSUIT

## BROKEN TROOPS

These will run with their backs to the enemy until able to rally.

If, when a unit breaks, it cannot immediately run, for example, if it is completely surrounded or backing an impassable obstacle, half the unit will surrender, and the other half will break out and be pursued.

If a general is involved, he will surrender if his personal figure is down to half strength.

Broken troops travel at charge speed where this is possible, minus 20 paces during the first period, and minus a further 20 paces for each subsequent period.

If they have not rallied before their move is reduced to zero or one of the figures has crossed the edge of the table, they are considered to have dispersed beyond rallying and the whole unit is permanently removed from the table.

During the first period of rout, they move directly away from the enemy threatening them, or if partially surrounded, straight through the gap.

During subsequent periods, they must head for their own base line by the quickest route, or if no route is available because of barring enemy, to the nearest accessable table edge.

Being a mass of frightened individuals, they do not change direction by wheeling, but make sharp turns.

Each turn made to avoid an obstacle or interposing enemy force deducts 30 paces from their move for that period.

If they meet friendly troops, they will turn towards any gap at least 20 paces wide within 50 paces. Failing this, they will burst through the friendly unit. Barbarian troops burst through in this way will be swept away and join the rout, except that barbarian light infantry will only sweep away their own kind.

If chariots or elephants burst through, there will be casualties.

These are adjudicated as for hand-to-hand combat, except that the crew do not take part.

Routing troops may attempt to break through enemy light cavalry or light infantry who bar their way. The barring troops must carry out the normal reaction or evade sequence. If they evade, it must be angled to try and clear the path of the approaching rout.

If the rout does not break through in the initial period, it must turn to avoid them, or if this is impossible, surrender.

## RALLYING BROKEN TROOPS

Routed troops may attempt to rally following any period during which they have not been in contact with an enemy force or lost 1 man per figure to missiles.

To do so they must take the appropriate reaction test, scoring better than halt.

If a general is involved in the rout, he has no influence to stop it.

Once having rallied from rout, troops require a further period to reorganise before they can move forward again.

## **PURSUERS**

These follow the routed at charge speed, minus 30 paces during the first period, and minus a further 30 paces for each subsequent period.

They will strike without receiving return blows, at the moment at which the enemy turn their backs, and at the end of any period if they are still in contact.

They may therefore strike twice during the first pursuit period.

Any changes of direction made during the pursuit are made in the same way as those of the routed troops they follow, except that they can cut corners and therefore deduct only 20 paces for each turn.

If they wish to charge through enemy troops that their quarry have routed through, both sides must test reaction in the normal way, even if too close for a normal charge reaction. The troops originally pursued may not attempt to rally until their intervening friends have turned the pursuers back or stood a period of combat without breaking.

All troops all of whose melee opponents break must normally pursue for at least one period. If, however, their orders were to hold their present position, they can take a reaction test, and will only pursue if this results in "uncontrolled advance". or if it results in "act as general wishes", and the general does so wish.

Troops may halt at the end of any period of pursuit, and rally back next period.

## TROOPS LEAVING THE FIELD

Troops who leave the table for any reason except rout will reappear at the same point if at the beginning of any of the next three periods a 3 or 4 is thrown, using a probability dice for regulars or a normal dice for barbarians. A score of 4 indicates an immediate return. If the score is 3, throw the same dice again, the score this time indicating the number of periods before the force, now assumed to be visible in the distance, returns.

## WINNERS AND LOSERS

If neither side has fled the field when the time has come to end the game, finish the current period then take any reaction tests that would be called for before the next period due to events in this one.

Count up each side's remaining points.

Do not count troops in rout during part of the last period of play, or who must start to rout due to final reaction tests, or who must leave the table at some future time due to reaction tests taken now or previously.

Include units which have left the table, but which have thrown dice indicating that they are returning

and in sight.

This takes into account the difficulty of rallying after nightfall.

Add any objective points that have been previously agreed for the control of specified terrain features.

A feature is defined as under control if a friendly force is occupying it or blocking direct enemy access to it, and if no enemy is able to charge that force next period.

If an enemy is able to charge next period, the blocking or occupying force may claim half the points, the other side none. Any such enemy force must be in sufficient strength to have a chance of breaking or pushing back the occupying unit next period.

If one side now has 10% of its original points more than its opponent, it has won. If not, the result is a draw.

However, National Convention games are usually played on a "Sudden death" basis, with any margin, however small, being enough to give the victory.

## **CAMPAIGNS**

Many wargamers enjoy their battles more when they form part of a campaign. Some of these are extremely elaborate; contain political and financial factors, and require large and detailed maps.

A less complicated form to cover a few battles between a pair of opponents is this.

- 1. The first battle is fought as a straight forward encounter. If this is drawn, the next will also be an encounter battle.
- 2. If one side loses, it is pushed back and fights on the defensive next time. As it knows the ground better than the enemy, it adds or subtracts up to 3 terrain units from those picked in the usual way, and can construct field defences until it balances its opponents superiority. If the defender wins, his opponent defends next time. If it is a draw, the first defender carries on.
- 3. If the defender loses, he takes refuge in a fortress with those troops he had left after the disaster. His opponent can then add siege equipment until the value plus his own troops equals that of the fortress and defenders.
  If the attacker does not capture the fortress, he breaks up the siege and retreats, and the next battle will again be an encounter.

In a drawn game, each side recovers all its runaways and half its other losses.

A winner recovers all his losses, and a loser recovers half his runaways and a quarter of his other losses.

The remaining losses are recovered for the battle following.

Troops that have changed sides will continue to fight for their former enemy, but arabs may change sides again, while former subject races will not.

If the weather rules are to be used, start the series in spring, and have each battle take place a month after the previous one.

## SIEGE, FIELD ENGINEERING AND SHIP-TO-SHORE FIGHTING

## **GENERAL**

In order to telescope siege operations to a point where they can be reproduced on the table we have had to depart from a rigid time scale. If it makes you feel better, think of a period as being an hour of industrious work, including a 30 second flurry of shooting or movement. Most of the activities mentioned in this section apply equally to sieges and to battles in open field.

#### MOVEMENT OF MATERIAL

2 figures can carry a scaling ladder sufficient to reach the top of a stone curtain wall, but not that of a tower, at normal speed.

A further period is required to erect it.

4 to 6 figures can carry a ram at normal speed.

A minimum of 6 figures is required to move a penthouse and 10 to move a tower, plus 2 for every figure in it

1 wagon can carry a disassembled penthouse, 3 a tower, 1 a pontoon.

A cavalryman can carry a 40mm long fascine at normal speed and throw it into a ditch without penalty. A 60mm fascine must be carried by an infantryman, as can an empty gabion, at normal speed.

#### CONSTRUCTION

Abatis, saps, ditches, turf walls, palisades and 60 mm wide bridges or causeways each require 5. figure/periods per 5 paces length.

If pontoons are available, bridging speeds are doubled.

30 figure/periods are needed to assemble a penthouse from parts ready to hand, 50 to assemble a tower, 10 to make a ram from available timber.

I figure/period is needed to fill a gabion. A fascine reduces ditch width by 5 mm.

#### DESTRUCTION

10 figure/periods are required to break down a fort door or 30 paces of palisade with a ram or with two-handed axes.

An elephant counts as 5 figures for this purpose.

A house door requires only 2 figure/periods.

30 figure/periods are needed to breach a stone curtain wall with a ram, 40 to render a tower untenable. Turf walls are immune to the ram.

If stone throwing engines attempt to breach walls or palisades the weapon factor is 1 below 150 paces, 0 if further, and each hit (casualty) counts as a figure/period of work. Aim is concentrated on the lower wall and therefore causes no casualties to defenders on the ramparts.

Alternatively, aim can be concentrated on the ramparts and the walls will escape serious damage. Wagons, siege towers and other wooden constructions can only be destroyed by stone-throwing engines or by fire missiles, 20 casualty equivalents being required.

However, men or animals associated with the target are vulnerable to other missiles. Actual occupants of wooden constructions are lost if they are destroyed.

## MINING

Mining must commence from a penthouse or similar shelter, and the exact aiming point of the tunnel written down and its progress recorded.

If the starting point is in view of the defenders, the besieger must declare when excavation starts. The tunnel then requires 5 figure/periods to advance 5 paces, a maximum of 10 figures being employed. A similar team can be employed by the defenders to countermine. If this starts within the fortifica-

tions, its commencement need not be announced.

If the countermine crosses the mine outside the fort, fighting underground with 3 figures per side lasts one period. If the counterminers have more casualties, their tunnel is completely collapsed, if not, the mine tunnel.

Half the miners from the collapsed tunnel escape.

Mining under water or marsh or against turf walls is impossible.

## BREACHES

Breaches made by a mine passing under a wall, or by ram or stone-thrower, should be indicated by laying a piece of dark card, 60mm wide at the bottom and 90mm at the top, against it.

Alternatively, you can have special "damaged" wall sections ready to replace the originals.

A tower rendered untenable by mine or battery can be indicated by placing a breach card on the wall adjacent to it.

Any defending figures on the 90mm section or the tower at the time of the collapse are lost,

## WORKING PARTIES

These can be any infantry or dismounted cavalry figures except barbarian "B" types. Any body of figures engaged on a task form a unit for reaction purposes. They count enemy troops within the fort as one enemy unit. Uncontrolled advance for figures carrying scaling ladders or fascines means excatly that, but in all other cases it means work at double speed, or if an enemy sortie is occuring, advance to contact it, ceasing work.

All figures count unshielded while working. However, they may be covered by other figures bearing pavises or mantlets, each of which covers both bearer and one other man over a 90 degree arc.

## FIGHTING INSIDE FORTIFICATIONS

Troops shooting from behind merlons or loopholes are treated as shielded and count cover at 3 times normal value. If not shooting, only stone throwing engines can hurt them.

Stone throwers can lob missiles over the walls from the inside, directed by men on the walls or towers who do not expose themselves to enemy missiles.

Those on the outside can do the same, shooting blind, in which case the casualties are halved and divided among all the units in garrison. Iland-to-hand combat is normal, except that escaladers count shieldless until they push the defenders back and get a footing. Until then, their opponents count in cover, but at its normal value. If escaladers are pushed back, their ladders are cast down.

Disorganisation due to fragmented front does not apply inside fortifications.

Uncontrolled advance by defenders means move towards a breach or wall threatened with escalade, or failing these, sortie out.

## FIRE

Any troops with orders to prepare them may use fire missiles.

Troops in the field must collect them from wagons, one serving 20 figures, or from pack animals, one serving 5 figures.

The period before they are used must be spent stationary, with no activity apart from preparing and lighting the missiles. Firing objects takes the same.

Normal ranges are halved for all but hand-hurled missiles.

The weapon factor is normally 1, but 0 for fire-resistant fort doors or palisades, or for siege towers or penthouses which are protected with green hides.

Fire can leap 10 paces downwind in light winds, 30 paces in strong winds.

Grass fires are only possible in very dry conditions and high winds.

A burning object or area becomes untenable when it has accumulated 20 fire casualty points, and remains so for 3 periods. An object that catches from another accumulates 5 fire casualty points per period.

Each figure fighting fire with a water source within 60 paces cancels one fire casualty point.

This cannot save an object which has accumulated 20.

A player wishing to use fire weapons should provide himself with a supply of cotton wool tinted with red, orange and brown water colours.

Fire fighters must have buckets, A water tank wagon lasts 10 bucket figure/periods.

#### CALTROPS

A Roman or Byzantine infantry unit can carry enough caltrops to cover a frontage of 5 paces per figure. It requires a complete period to lay them. When laid, they are represented by a piece of card 25 mm wide, painted in terrain colour, but with a sprinkling of small silver stars marked on it. They cannot be picked up again during the battle.

Troops of either side passing over caltrops count them the same as missile hits, with a factor of 0

for infantry, 1 for other troops.

Use the number of figures passing over them for the other parameter. No tactical factors are used but the usual chance factor applies.

## SHIP-TO-SHORE FIGHTING

Crews for ships should be agreed between opponents.

As a general guide, raiding craft should have one fighting man per oar, the "Aurora" Roman galley should have one light javelin man for each upper deck oar, plus 5 heavier infantry, and a transport should have enough troops to cost 10 extra points for sea travel.

While on board, all the ships company count as one "C" or "D" class unit with no command factor needed, in cover, higher than a beach, but lower than a tree, cliff or building.

They ignore disorganisation for fragmented front.

Wading ashore counts as a deep ford, and climbing the ships side as mounting or dismounting. On land, they reform into their proper units, and ignore the ships except for counting them as friendly cover.

#### OPTIONAL RULES FOR WEATHER AND TIME OF DAY

These rules are mainly intended for campaigns and are necessarily simplified.

The probability of various types of weather occurring obviously depends on the geographical area and time of year.

Dice at the start of the game to find out the potential weather. If the table says fine, this will last for the whole game.

Other types are potential, and will occur if a 1 is thrown at the start of any period, and cease if a 5 or 6 is thrown.

	MEDITERRANEAN COUNTRIES	, THE	MIDDLE EAST, THE IN	DO-PERSIAN B	ORDER			
Dice Score	November, December, January, Febr	May, June, July, August, September.						
1	Strong winds, snow in mountains, ra elsewhere.	in	Strong winds and rain.	Strong winds i only.	Strong winds in desert or Steppe only.			
2	Snow in mountains, rain elsewhere.		Rain	Fine				
3	Strong Winds		Rain except in desert	Fine				
4, 5, 6	Fine		Fine	Fine				
	EUROPE NORTH OF THE ALP	S AND	PYRENEES AND WEST	OF THE RIVE	R ELBE			
Dice Score	January, February	Mar	ch, April, October, Noven	nber, December	July, August	May, June, September		
1	Snow	Sno	w in mountains, rain elsev	where	Rain	Rain		
2	Snow in mountains, rain elsewhere	Rai	n and stong winds		Rain	Fine		
3	Rain and strong winds	Stro	ong winds		Fine	Fine		
4, 5, 6	Fine	Fin	e	_	Fine	Fine		

The tactical effects of some types of weather and times of day are given below.

Rain: All missiles have weapon factors reduced by 1 till the 2nd period without rain.

Fires are extinguished and no more can be started for the rest of the game.

After 3 periods of rain during the entire game, all movement on land except on paved roads is reduced by 20 paces, reaction totals are reduced by 1 and river crossings become

one class more difficult.

Snow: As for rain, but after 3 periods fall, all movement rates are halved and no extra charge

distance is allowed except in rout.

Bodies of troops on mountain paths with a drop on one side must then dice each time

they move. I means a figure or model has been lost over the edge.

Drought: During June, July and August, grass fires become possible in steppe country during high

winds.

In desert during the same months, troops other than arabs, who have no access to a well,

have all weapon factors and reaction tests reduced by 1.

Wind: In desert areas, strong winds reduce vision to 30 paces, and only arabs can move in

any direction except straight down wind.

Trumpet signals will be inaudible.

Mediterranean winds can be assumed to blow from the north east.

European winds should be diced for, westerlies being slightly more common. They

shift one point anticlockwise when rain starts to fall.

Fog: These may occur at any time of year in seacoast areas and during October to March in

mountains and inland in western Europe.

Throw 1 or 2 at the start of the game except in strong winds. Visibility is reduced to 100 paces for the first 3 periods.

Sun: Troops facing within 45 degrees of east for the first 2 periods of the day, or within 45

degrees of west for the last 2, will be dazzled on clear Mediterranean days from May to

September.

A similar effect in Europe requires a 1 on the dice. Dazzled troops have their weapon factors reduced by 1.

Night: For campaign purposes, it is necessary to assume that each period represents 1/8 of the

daylight hours available between October and February, 1/10 during September or March, and 1/12 during the rest of the year. Fighting will normally cease at nightfall. An optional method is to dice at the start of the game, counting the number scored as

the number of periods already elapsed when the battle starts.

Nightfall reduced vision and all movement except evasion and rout to 60 paces.

All troops count unfriendly cover, and all unilluminated sightings are surprise sightings. Troops moving without lights throw an appropriate dice each period, diverging 10 paces

left if they score 1 or 2, right if 5 or 6.

A fire or torch lights an area 60 paces around it.

Engineering work without illumination goes at half pace.

An army encamped at night may have up to 1/5 of its units on guard.

Others are asleep. Their sentries will detect approaching enemy at 60 paces, but a regular

unit will take half a period to form up, barbarians, a full period.

#### APPENDIX I.

## BUYING AND CONVERTING A WARGAMES ARMY

By far the cheapest figures are the Airfix plastics. Two of the boxed sets, the Romans and Ancient Britons can be used as supplied, and the Robin Hood and Arab sets with relatively little conversion, while many other sets can be used as the basis for conversions to provide practically any type of warrior figure of the Ancient world.

The plastic used softens with heat and can be easily cut or welded by a needle stuck in a cork and heated over a candle flame, or by a fine pointed electric soldering iron. The only glue any use is Humbrol Universal.

Drawing pins can be provided as shields, plastic weapons changed for wire, or even the top half of one figure cut off and pinned or welded to the bottom of another. The only limit is your own ingenuity.

The main disadvantage of plastic figures is that they are flexible, and tend to shed paint in large flakes when they are bent. If you place a high value on your own painting time, you may therefore prefer metal figures which will preserve your skill longer.

on our reference books.

and periods.

A great range of figures many based directly on our reference books on Ancient Armies.

An increasing range of fine figures again based

A large range of Roman, Persian and Greek figures, now diversifying into other nations

A fine range of Ancient figures, still growing.

The most important suppliers of metal figures in 20 & 25mm scales are:-

Miniature Figurines Ltd.. 5 Northam Road.

Southampton, Hants, SO2 0NZ

Hinchliffe Models, Station Street.

Meltham. Huddersfield.

Greenwood & Ball Ltd., 198 Northholt Road, South Harrow,

Middlesex.

Jack Scruby, 2044, S. Linwood, Visalia.

California U.S.A.

An increasing range of 15mm figures is now being produced by:-

Peter Laing, 11. Bounds Oak Way. Southborough, Tonbridge Wells,

Kent.

Metal figures can also be converted with a modelling knife, or with solder, Plastic Padding, or

Plasticine set with Banana Oil, or sticking with Durofix. In addition, you can often mix in figures of other times or nationalities, to give the right air of nonconformity to a barbarian unit.

and by Miniature Figurines.

For example, a Hunnic unit can absorb Pictish, Persian, Egyptian, Gallic and Napoleonic Bashkir figures.

When you glue barbarians or light troops to their bases, don't make their formations too well drilled. Try to leave them a little ragged,

In a similar way, horses don't move in step; ask metal figure manufacturers to send you a mixture of horse types or positions. This really helps improve the appearance of your units.

Regular articles on conversion appear in Airfix Magazine, Military Modelling and in Modelworld, and occasionally in Slingshot, bi-monthly journal of the Society of Ancients, the specialist society for Ancient and Medieval wargamers,

The Society of Ancients is really a must for all ancient players. As well as producing Slingshot, it holds local meetings at various centres, and runs an annual wargames championship on a league basis, in which all members automatically take part.

Write to the Secretary - Stephen Reed for application form with details.

33, Salvington Hill, Worthing, Sussex, BN13 3BB,

## APPENDIX II.

## PAINTING A WARGAMES ARMY

The easy way to paint is to do it 10 to 20 figures at a time.

Start off with the most extensive colour and really splash it on, then go back to the first of the batch and start on the second colour, working carefully.

If you use matt Humbrol paints, the first colour will be dry by the time you get back to it. You will find you average about 1 minute per colour per figure.

Always use artists brushes, which have finer points and last longer than the cheap ones sold in model shops. In the long run you will save money, and in the meantime you will get much better results.

Never work straight from the tin, because a skin will form on your paint, especially if you wipe off the surplus on the lip of the tin, preventing it from seating properly when you put it back on. Transfer the paint to a pallet with a screwdriver or something similar, and don't be afraid of mixing colours. Put the lid back on immediately.

Wash your brushes with clean thinners as soon as you finish with them, and wipe and repoint them with a clean tissue.

Do not leave them point down in a jar to get bent.

If your figures are to be handled much, they will need to be varnished. Most people prefer matt varnish, which however, needs careful warming and much stirring before use if it is not to turn out glossy.

Gloss varnish is usually stronger than matt, and is especially useful for figures that do much travelling. Metallic paints tend to run if varnished too quickly, and should be left to dry for at least 48 hours first.

One common mistake in painting is to produce barbarians who are apparently dressed in uniform, where each should really be different.

Go through a batch in the normal way painting one colour, but paint a different part each time. For example, the first figures get a brown jacket, the next a brown cloak, next brown trousers, and so on.

This produces a spectacular effect in the mass.

A similar technique can be used with hair colour, and in varying the amount of facial hair. Humbrol flesh colour needs red adding.

Another almost universal mistake is to paint horses in impossible colours. A horse with a brownish body can have its mane and tail the same colour or slightly lighter, or black.

The legs below the knee are always the same colour as the mane and tail or that of the body, whichever is darker.

Most horses have some white on the face and some white feet, rarely none and rarely all four. Give the eyes a touch of black, and paint the hooves with dark earth.

Very few units, regular or barbarian, had horses which were even approximately the same colour.

Bronze or steel armour is often improved greatly by a thin wash of black to pick out the individual scales or pieces.

Gunmetal is ideal for iron mail.

Silver should be reserved for sword and spear blades.

Horn scale armour should be a blue-green colour.

A type of fancy nail varnish with fragments of gold in suspension makes excellent glittery gilt armour when applied over gold paint, which by itself is rather dull.

The Humbrol leather paint is ideal for hardened leather armour, but red bauxite or darker browns are better for thin leather jerkins.

Dyed leathers were much used, and most Roman belts, straps and horse harnesses were a dark red or maroon, with bronze or silverplated buckles.

Uniforms are dealt with in more detail in our companion range of army booklets, together with organisation and tactics.

An alternative type of paint, especially useful for plastic figures, is Rowney's Acrylic Gouache. This is water based, but waterproof once it has dried.

Its big advantage is that it is less inclined than others to flake off when a plastic figure flexes, but metal figures must be handled very carefully until varnished.

#### APPENDIX III

## **RULE ADAPTIONS FOR 15MM FIGURES**

The following base sizes should be used.

	Frontage	Depth
HI and MI.	7½mm	20mm
LMI.	10mm	20mm
LI.	15 mm	20mm
SHC.	7½mm	40mm
EHC, HC and MC.	10mm	40mm
LC.	15mm	40mm
Elephants and bolt-shooting engines.	20mm	40mm
Stone-throwing engines.	40mm	40mm
Chariots.	20mm	40mm
	+ 5mm for	
	each extra	
	horse.	

If you wish to continue to use the 1 inch to 10 paces ground scale, with the increased number of figures providing a more realistic appearance, each figure will represent 10 men. Elephants, chariots and engines represent 4. Continue as normally, but count only half the figures you normally would as shooting or fighting, and remove one figure for every 10 casualties.

Alternatively, use 1mm equals one pace.

Each figure will now represent 50 men in 8 ranks of 6, plus 2 officers or other supernumaries. Elephants, chariots and engines represent 8. This makes it possible for the first time with any set of rules to fight with armies representing 20,000 or 25,000 men. We therefore recommend that players stick closely to actual army compositions such as are quoted in our reference books.

This really calls for an entirely fresh set of rules to exploit it, and we will be working on these in hopes of having them ready and fully tested in early 1974. In the meantime, use this set, subject to the following alterations.

- Pike-armed infantry are allowed to fight in 2 ranks of figures, other troops fight and shoot in one
- 2) The maximum width column that can wheel without penalty is 30mm. Ignore in actual play the facts that 2½ times as many casualties should be caused (in fact, it is much more complicated than this) and that each figure should need 2½ times as many casualties before it is removed.

The revised game will tend to make cavalry and barbarians more effective, and pikemen less so. Disorganisation will be less dangerous.

None of these effects will be excessive, and in some peoples opinion, they actually improve the balance of the game. Write and tell us what you think.

We advise standardising on 30mm wide bases, except for skirmishing light cavalry, who do better on single bases, and enough singles to enable casualties to be removed.

Each 30mm base will then take 4, 3 or 2 figures respectively.

Lastly, remember that all your moves are now going to be shorter, and don't start too far apart. Also bear in mind that few armies will now stretch from table edge to table edge, so that outflanking movements will be much more promising.

## APPENDIX IV

## SUGGESTED ADAPTIONS FOR SWORD AND SORCERY FANATICS

These adaptions are based mainly on those hurriedly put together for a "fun" demonstration at the 1972 A.G.M. of the Society of Ancients, plus suggestions made in the columns of Slingshot, notably by D.J. Walker-Smith.D. Macfarlane, and Russell King.

They are here reprinted by popular request i.e. to stop people writing to us about them!

They are hidden at the back like this so that sane, sensible wargamers can avoid continuous mental shocks while thumbing through the pages.

#### SAINT

Costs 100 points. No spells will work within 100 paces of him, and unnatural beasts such as Dragons will not enter this zone of sanctity. He does not have to take reaction tests.

However, unless a warrior saint, which see below, he wears no armour and carries no weapons, counting as a totally unarmed shieldless medium infantry man. He can walk on water.

His effect on evil, that is, opposing, men, is limited to abashing them by his presence, reducing their reaction totals by 1 when they come within 100 paces. He will not appear on behalf of any side including creatures of chaos.

If killed, he is removed from the field, but promoted to be a Martyr. He cannot then re-enter the fray, but counts 125 points to his own side on totalling up at the end of the battle.

#### WARRIOR SAINT

Appears as a mounted knight costing 25 points more than an ordinary saint, and worth 150 points as a Martyr. Has all the characteristics of an ordinary saint except that his movement, vulnerability and fighting power are equivalent to those of a super heavy cavalrynian armed with kontos.

Although his figure represents only one man and not 20, he fights like a normal figure "because his heart is pure".

His influence on other troops reaction and melee fighting is equivalent to those of a rash general.

## MOSLEM SAINTS

These are equivalent to unarmed Christian saints, except that they add 3 to the reaction totals of all troops of their own side within 150 paces. Should one come within 100 paces of a Christian saint, the two will home on each other and indulge in a heated theological discussion with their staves, counting them as two-handed axes, in the absence of other weapons. The generals personal combat rule will not apply, the controversy lasting until one is promoted to be a Martyr. If the winner is wounded, he must then remain where he is praying for the rest of the battle.

#### **HERO**

A hero has normal characteristics for his type, except that if equipped with a magic sword, as most of them sensibly are, he can count it as a two-handed axe whenever he wants to, provided no saint of either persuasion is near. He costs 50 points.

However, being somewhat vain, he is disorganised by the presence within 100 paces of another hero of his own side, unless they are known previously to be blood brothers or the equivalent.

He influences a unit he is with as if a rash general, but has no effect on other troops. When operating alone, he counts plus 3 for his own reaction.

## **ELVES**

These cost 10 points each, if light infantry archers, or light medium or heavy infantry spearmen, 20 points if heavy cavalry with lance or javelin. Their shooting random factor is always plus, because they have a semi-magical ability, as do some wargamers, to warp probability.

They can plus or minus 1 from their own reaction totals. Although usually found fighting against chaos, are disorganised by a saint within 100 paces.

#### DRAGONS

These cost 100 points. Because of their tendancy to greed and dubious reputation, Dragons are usually found on the side of chaos. They are a little thick up top, and will stick to their first order until they forget it. and must then take "no orders" reaction tests. Changes in orders irritate them, and they will not only not obey the new orders, but will eat the messenger.

Being interested in gold, and having heard that elves have pots of it concealed at the ends of rainbows, they will always go out of control and charge any in reach.

They are also inordinately fond of elephants, even their own sides, and will attack and kill any that come within 100 paces. They will then take one period to eat them, then snooze for 2 periods, not waking even if attacked.

They count as barbarian "D" types for reaction, and each dragon functions as a unit.

Their ground movement and vulnerability is equivalent to super heavy cavalry and they can fly 200 paces in a period. They can flame at 40 paces range from the air, or while grounded, counting as 5 fire-javelin hurlers. They must land before charging into melee. and in it count as 5 super heavy cavalry, with Kontas. Dragons have the same reaction and disorganisation effects on elephants as do elephants on horses.

## **TROLLS**

These cost 25 points each, count as barbarian "D" types for reaction, as super heavy cavalry for vulnerability, and as heavy infantry for mobility. They do not use missiles, and count in melee as having double-handed axe. They must be organised into units. If such a unit gets a "halt 2 periods" reaction result, this means its protective spells against the effects of daylight have broken down, and the unit has turned permanently to stone. Trolls can only fight for chaos.

#### **GIANTS**

These cost 50 points, and count as separate barbarian "D" units.

Vulnerability is as for heavy infantry, movement as for medium infantry, and each fights with the same effect as 5 double-handed axemen.

They can also toss boulders 100 paces; counting as 3 crossbow figures in the same way as a small stone throwing engine.

They usually fight for chaos.

#### **ENTS**

These cost 25 points, move as LMI, receive blows as SHC, and deal them out as double-handed axemen, fighting in units.

They are normally neutral, with a slight bias against chaos, and a large one against people armed with woodsmen axes.

React as "D" barbarians whenever such people come near to their wood, adding 1 for chaos troops within charge reach, 2 for axe-bearers. They will attack if their reaction result is "move towards enemy" or higher.

#### GOBLINS AND ORCS

These cost 5 points each and count as fanatic shieldless light medium infantry "E" type archers, with the same bow ranges as horse archers.

They fight in units on the side of chaos.

They can be mounted as light cavalry on giant wolves, in which case their enemy count them as "hostile huns" for reaction, and they cost 10 points.

#### DEMONS

These cost 10 points each, and can be armed with a variety of weapons.

Those with more than 2 arms can count shielded while using two-handed weapons. They cannot maintain materialisation without an operative black magician within 100 paces, and will leave permanently for the 12th plane when deprived of one.

They otherwise count the same as goblins.

## TAME CROWS

These can carry messages for their master, travelling at light cavalry speed, or can be used for ground attack, counting the same as archer figures at point blank range. Their vulnerability is equivalent to shielded light cavalry. They cost 25 points, and are normally found on the side of chaos.

## BASILISK

A basilisk has the same mobility as a heavy infantryman, the same vulnerability as a super heavy cavalryman, and can keep one hostile figure turned to stone for as long as it looks at it. They should normally be found in units on the side of chaos, and cost 10 points each.

## **DWARVES**

These cost 10 points each, are armed mainly with double-handed axes, have the same vulnerability and mobility as heavy infantry, and usually fight on the same side as the elves. If elves oppose them, they will go out of control and charge them. Like elves, they are disorganised by saints.

## MAGICIANS

These cost 150 points. They move and fight like medium infantrymen armed with sword only and shieldless.

They can cast spells at any individual or unit within 100 paces, using the following procedure.

- (a) Nominate number of spell to be used and target.
- (b) Throw minus and plus regular dice.
- (c) Modify spell number according to the dice.

## Spells available are:

- 1. Magician vanishes in puff of blue smoke, leaving strong smell of sulphur, and does not return.
- 2. Magician flies through air in straight line to position nominated within 100 paces. If he passes through a zone of sanctity, he crashes and breaks his neck.
- 3. Target turns to stone for 2 periods, cannot move or fight, but cannot be damaged except by Giants, Trolls, or stone-throwing engines.
- 4. Target becomes invisible for 3 periods. At close quarters, blows struck against it count disorganised. It cannot be shot at.
- 5. Target takes immediate reaction test, adding 3.
- 6. Target takes immediate reaction test, deducting 3.
- 7. Any arrows travelling to or from target reverse direction and hit shooters.
- 8 Target unit fights among itself for one period.
- 9. Magician turns into frog for 3 periods, loses magical powers for that time.
  - Recovers shape if a Saint comes within 100 paces, but becomes frog again if he leaves the influence
- 10. Mythical beast targets disappear in puff of blue smoke. Other targets sneeze heavily for one period, disorganised. Hostile magician turns into frog.
- 11. Target forgets its orders, and is incapable of understanding any fresh orders for two periods, or obeying any previously arranged signals.
- 12. Target moves as if climbing steep hill, the effect lasting for 2 periods.

Spells can be cast before movement commences or at any point of the period. Spells 2, 4, 7, 10 and 11 require the Magician to rest for a period before casting any more.

## THIS IS INTENDED AS A QUICK REFERENCE AND CALCULATION

SHEET FOR PLAYERS ALREADY FAMILIAR WITH THE FULL RULES

	ATERS ALKEADT										
TEST REACTION AT: -	+1	l		-1							
Players discretion	Each friend unit wi	ن 150 thin	P 70 4	Each enemy unit within 150 up 76 4							
First shot at or in charge reach away	More friends in sigh	nt		More enemy in sight							
2 cas, per fig. from missiles	Friends advancing	within 150		Enemy Cavalry within 15	0						
Animals exposed to fire	Friends charging w	ithin 150		Enemy advancing within	150						
First below half strength	Rear support withi	n normal m	ove	Shot at by ½ own strengt	h						
Attempting to charge	Enemy retiring wit	hin I50		Shot at by engines moved	d – 40						
Being charged	Flank or rear temp	ts within 15	0	Enemy behind flank in reach							
Friends routing within 150	Enemy downhill w			Enemy to rear in reach							
Not wishing to pursue	Friendly cover with	in 100		Enemy uphill within 150							
Trying to rally	+2	2		Disorganised							
50 fresh enemy figs after 5 periods				Each 1/5 lost or separated							
Surprised by enemy within 100	Fanaties in charge i			Retiring Friends retiring							
General disabled	Each enemy unit ro	outing withi		Armed with bow or cross bow							
¹⁄⊠ UNITS OF TABLE	General with unit		+ or -3		Hostile Huns						
BARBARIAN 3 x 1 2 3 4 5 6 Dice	General within 150		+ or -1	Charging or charged by f	anatics						
REGULAR 3 x 2 3 3 4 4 5 Dice	Behind cover or in	square	+ or -2	-2							
	Each secure flank		+ or -1	_							
REACTION IF SUBJECT TO CURRENT	ORDER REACTION IF NO CORRENT ORDER Unfriend					0					
				Unfriendly cover within							
ABCDE	A B C D E			Enemy el. or ch. within							
-2 -1 1 2 3 Break if under fire or charge - otherwise	-2 - 1 1 2 1	As across		Animals within 100 of fi							
retreat 3 periods.				Surprised by enemy with							
-1 0 2 3 4 Retire disorganised	-1 0 2 3 4 If	pursuing ha	lt 1	Horses disorg, by el. or C							
+2 2 3 4 5 2 periods.	+3 4 5 6 8 2	riod, if halt periods.	ea, retire	Sub-unit beyond sight or norm, move 50 fresh enemy figs after 5 periods							
2 4 5 6		ove towards	friends.	General disabled							
3   Halt	CC	over or hill -		Routing LA MOUNTED & HEAVIEC.							
4 5 6 8		periods.		"E" types routing							
4 5 6 7 9 Carry on with order or take other optional		ove towards	s enemy —	Army reaction test for ½3 off.							
13 13 13 12 12 action.	12 12 13 13 13	periods.		Troop Types	Move	Charge					
14 14 14 14 13 13 Act as general wishes	13 13 14 14 14	As across			<b>8</b> 0	120					
16 15 15	15 15 15			SHC		_					
17 16 16 14 14 Uncontrolled advance	16 16 16 15 15	As across		EHC		180					
				HC	(5c, 20 )						
DISORGANICATION CALIFORS				MC J	<b>20</b>	2330					
DISORGANISATION CAUSES	MISSILE	c	MAX	LC	160	240					
Routing, Rallying, Reorganising, Caught while pursuing or sleeping.	WEAPON	3	RANGE	2 man or ¼ H Ch.	- A	180					
Caught changing formation or				Other Chariots	30 mg	120					
direction or facing wrong way.	HAND-HURLED V	VEAPONS	40	Elephants	<b>80</b>	100					
Formation split by 10 pace gap	EXTERILANCE CITAT	DIOT		LI + LMI or LHI	I + LMI or LH1 80 10						
Treas per fig. from missiles INP PUBLICO	ELEPHANT, CHAI CAMEL OR HORS	E ARCH	180	MI & HI	60	80					
earlier in period. PAGE BY MOUNTER				<b>15</b> 1	43)	€					
Troops other than LI or LMI moving over difficult terrain.	FOOT ARCHERS		240	Mounted Inf.	130	_					
Inf. other than LI or LMI moving of Litt	120	Dismounted Cav. 20 Less									
when mounted charge contacts for $\sim 6^{\circ}$	SLINGS		120	Man - H Bolt-thrower	60						
Horses within 30 paces of El. if familiar, 100 if not. Non-Additional 2nd period or turning out of State of Sta	STAFF SLINGS		240	Mule - D Bolt-thrower	120=	_					
2nd period or turning out of				Ox - D Engines	20	-					
Period after fighting El. or Ch.	CROSSBOWS		300	Wagons	40	-					
hand-to-hand. Interpenetrated or pushed against	ENCINES		480	Towers & P/llouses	20	-					
impassable obstacle or friends.	ENGINES		400	Ships under oars	120	_					

WEAPON FACTORS																						
Situation	WEAPONS	NS USED AGAINS									AINST	Γ S	ъс Не	Мс	Lc	HI	MI	LI	El.	Ch.		
Distant	DARTS, JAV	TS, JAVELINS, SLINGS AND BOWS									?	) 1	4	1	2	3	2	1	3			
Distant	CROSSBOW	CROSSBOWS OR ENGINE CREWMEN or SAFF SLINGS											?	1 1	1	0	1	1	0	1	0	
0	KONTOS OR KNIGHTLY LANCE IN ST ROUND										1	2 1	4	3	4	5	3	0	1			
Cavalry hand-to	SHORT SPE													1	0 2	5	4	3	4	5	1	2
hand	BOW AND 3	WOR	<del>D</del>	OTH	ER	WE	ARDI	s c	ر د د	RC	UNS	PMC	<i>ي</i>	1	0 1	2	3	1	2	4	1	1
		BOW AND SWORD OTHER WEARDING OF CIRCUMSTRUCES TWO-HANDED PIKE										4	1 2	3	0	2	3	1	1	2		
	LONG OR S	LONG OR SHORT THRUSTING SPEAR											11/2	0 3	4	1	3	4	2	0	1	
Infantry hand-to	PILUM OR I	OUI	VAL	ENT	AND	SWC	ORD							1/2	1 2	2	2	4	5	4	1	2
hand	JAVELINS (												_		0 1	1	3	3	4	5	1	2
	TWO-HAND					_									4 5	+-	1	5	5	2	1	1
	SLINGER, A							2 WI	THIS	WOP	D		-		0 1	1	1	1	2	3	1	2
	ELEPHANT				LLL	1	, 4,1	J., 17 1		,,, 01			-	+	2 2	+	1	3	4	2	1	3
Special hand-to	CHARIOT M													-	3 4	5	3	4	5	2	0	4
hand	+1 FOR CRI	-		//T11	LON	C CD	17 A TR	on I	UE		O 112		2T TN16			1-	-					
	TJ POR CRI	C VY IVI	AN W	1111	LON	G SP	CAK	OK P	IKE	*	2 tr .	AVI	SLINS	7	Lin	ARC	HER	OK	. DK	I V E	K	
						7	FACT	ICAL	FAC	CTOR	S											
	ARCHERS AT MORE THAN HALF RANGE CHARGING OR FOI							OLL	own	NG U	P											
ARCHERS	ARCHERS SHOOTING OVERHEAD UPHILL OF MELEE								EE OI	OPO	ENT						1+					
MISSILE T	E TARGET MOVED 60 PACES -1 SHIELDLESS CAVA							VAI.F		RH	AV	/ IN	FAN	TRY	7							
	NEMY IN PARTIAL COVER SHIELDLESS LIM																					
													_	_	_	-						
	NOT PIKES, FACING PIKE OR LONG SPEAR SHC FLANKED IN M											_		+2								
FANATIC:	S IN SUBSEQUI	ENT	MELI	EE PI	ERIO	D		N 1	_		_		MEL		ERIC	OD O	F G.	AMI	]	_		_
TOTAL OF FACTO	ORS	1	2	3	4	5	6	7	8 8	9	10	11	IGUR 12	13	14	15	16	1	7 1	.0	19	20
	-5	0	0	0	0	Ö	7	1	1	7	7	1	2	2	2	2	2	_	2	3	3	3
	_4	0	0	0	_			1	1	2			2	2	2		-		3	3	4	4
	-3 -2	0	0	2	2	2	3	3	3	3	4	3	5	<u>4</u> 5	6	<u>5</u>	5	+-	5 7	7	6 8	<u>6</u> 8
	-1	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	_	9	9	10	10
	1	1	2	2	3	3	5	6	<u>5</u>	7	<u>6</u> 8	7	7	10	9 11	9 12	10	+-	_	4	12 15	12 16
	2	1	3	4	5	6	8	9	10	11	13	14	10 16	17	18	19	21	2	_	23	24	26
	3	2	3	5	6	8	4	11	13	14	16	18	19°	21	22	24	25	2	7 2	29	30	32
	5	3	5	6 8	10	10	12 15	14	16 20	18	20 25	22	30	26 33	28 35	38	32 40	_	-	5	38 48	50
	6	3	6	9	13	16	19	22	25	28	32	35	38	41	45	48	51	54	_	_	60	64
	7	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	+	_	12	76	80
	9	5 6	10	15	20 25	32	30	35 44	50	57	50 63	69	76	65 82	70 88	75 95	80 101	_	_	_	95	$\frac{100}{126}$
	10	8	16	24	32	40	48	56	64	72	80	88	96	104	112	120	128	+	_	_	52	160
	11	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	+	_	_	90	200
	12	13	25	38	50	63	76	88	101	114	126	139	151	164	176	189	202	214	4 23	1 2	240	252